pr		·	OPPT-2	002-006	0-00	24
INITIAL	REVIEW EXPOSUR	RE REPORT	P-99-0044	1	Page 1 of: l/	
Assesso	or: MAMAN	rov-mottz	Search ()\	/ Focus Da	Focus Date:	
SAT	Health: L	M		Focus Re	Focus Rep:	
	Eco:	H ⁻		SAT Rep:	GT	
Submitte	er:		Max. PV (kg/yr)		*Manuf. Import	X
Use:	references Th hardener, ca	or sand used in found e PMN substance is using cross-linking be used to form the orga	mixed with sand an etween PMN substa	d then reacted wance and sand.	<i>r</i> ith a This	
Consum	er Exposure ()no,					
	()yes,	see consumer exp. p	age	······································		
Analogs	/Comments				*	
Chemica		de, polymer with phe	nol and 1,2,3-propa	anetriol, methyla	ted	
Trade N				CAS:	209810-57	7-1
Structure	LS:3 7 61 MM	OH		OH		2,1
	Constitution of the Consti	509900009	364/3 _/)

INITIAL REVIEW EX	KPOSUI	RE REPOR	T		1	P-99	0-004	4	Page	2 of:	()	·	
STATE NEAT	-		Liquid	d					Τ'				
MFG	MFG Liquid								7 5	PLEST	IMATI	ONS	
FORMUL			% < 50	00		-			_	*			
MOL WT			% < 10	00			1						
PROPERTY Su	ubmitted	IC	B-CRSS			Met	:hod/ F	Ref		-			
MP (C)													
BP (C)			@ 76	0 torr							@	760	torr
@ P (torr)													
VP (torr)							Est						
S-H2O (g/L)					1		Est					m	g/L
S-Org (g/L)												m	g/L
Log Kow									_				
pH, pKa		,				Lo	og Ko	С					
Light Absorption (nm) < > :	290			Log	BC	F	BCF					
Solvent:					Н	(atr	n m3,	/mol)		1.0	0E-08	1	
HYDRO t(1/2) @ pH 7, 25 C				da	P	ersis	stence	e / Bio	accumul	ation	PRO	QB 1	
Volatilization (H2O) t	(1/2)		Rive	er			-	hr	Lake				da
AOP t(1/2) (hr)	ОН	1.04	O3						Total		1.0	4	
BIODEG Linear Pro	ob: -0	0.06 Nonline	ar Prob:	0	.00 S	urve	y Ult:	N	/K-MO S	urvey l	Prim:	DA-	WK
STP (% Removal)	Tot	2.83	Biod		0.10)	Ads	3	2.73	Air	(0.00	
REMOVAL IN WWT	POTW	% Overall				2	5	50	75		90	=> {	99
								CAT	regory	<i>'</i>			
			RATING		1			2		3	-	4	
Sorption					low	ر	mo	derate	e st	rong	V.	strong	<u>g</u>
Stripping					tensiv			derate		ow		gligib	
Biodegradation		emoval		/ 	know			nigh		derate	ne	gligibl	le
	Des	struction		ur	know	/n/	COI	nplete	e pa	artial			
Comments:													
			I	Т							1		
AEROBIC BIODEGF	RADATIO			├──	= day:			eeks ·		onths		nonth	
		Primary		<	= day	S	W	eeks	mo	onths	1 <	nonth	IS
Comments:													
· · · · · · · · · · · · · · · · · · ·													

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INITIAL REVIEW	EXPOSUR	E REF	PORT		P-99-004	14 F	Page 3 of: //	
		·				CATE	GORY	
				RATING	1	2	3	4
ANAEROBIC BIC	DEGRADA	TION	Ultimate		<= days	weeks	months	≥ months
			Primary		<= days	weeks	months	> months
Comments:								
ł	HYDRO (da)					,	·	
HYDROLYSIS		Α			<= mins	hours	days	=> months
(t(1/2) @ pH 7, 2	5 C)	B.			<= mins	hours	days	=> months
Comments:								
SORPTION TO S	OIL & SEDI	MENT			v.strong	strong	moderate	/low
Comments:								
MIGRATION TO GROUND WATER					negl	slow	moderate	rapid/
Comments:								
							1	
VOLATILIZATION					negl	slow	moderate	rapid
(t(1/2) w/o sedim	ent Lakes	(da)			negl	slow	moderate	rapid
Comments:	·							
							· · · · · · · · · · · · · · · · · · ·	
PHOTOLYSIS			Direct		negl	slow	moderate	rapid
		B. Ir	ndirect		negl	slow	moderate	(rapid)
Comments:					······································		-	
			t(1/2) hr				1	
ATMOSPHERIC	A. OH		**		negl	slow	moderate	rapid
OXIDATION	B. O3	·		<u>]</u>]	negl	slow	moderate	rapid
Comments:								
							-	
				,				<u> </u>

The second section was an area to the second second

FINAL INITIAL REVIEW EXPOSURE REPORT

PAGE Y OF 6/

CASE NUMBER(S): p-99-0044

ENVIRONMENTAL RELEASES

		=======	 ===
DELEVER IDA 12	Number of Balance Gitter		

RELEASE ID#: 1a Number of Release Sites: 1

RELEASE ACTIVITY: (X)MFG ()PRO ()IND USE ()COMM USE ()CONS-USE

RELEASE DESCRIPTION:	WATER	LANDFILL	INCINER	LAND/INCIN	FUGITIVE
Total Releases:	30.00 (kg/yr)	<200.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)
Release Days/yr: Per Site Release:	30 1.00 (kg/day)	<200.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0 0.00 (kg/day)

REMARKS : Landfill release is less than the trigger amount of 200 kg/site/yr.

RELEASE ID#: 1b

Number of Release Sites: 1

RELEASE ACTIVITY: (X)MFG ()PRO ()IND USE ()COMM USE ()CONS USE

RELEASE DESCRIPTION:	WATER	LANDFILL	INCINER	LAND/INCIN	FUGITIVE
Total Releases:	32.00 (kg/yr)	<200.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)
Release Days/yr: Per Site Release:	2 16.00 (kg/day)	<200.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0 0.00 (kg/day)

EXPOSURE BASED REVIEW CRITERIA

Surface DW []y [X]n Ground DW []y [X]n Ambient Air []y [X]n	Total Release Water Releases Consumer	[]y [x]n [x]y []n 2581 kg/yr []y [X]n
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INITIAL REVIEW EXPOSURE REPORT

CASE NUMBER(S): p-99-0044

ENVIRONMENTAL RELEASES

RELEASE ID#: 2a

Number of Release Sites: 8

RELEASE ACTIVITY: ()MFG ()PRO (X)IND USE ()COMM USE ()CONS USE

RELEASE DESCRIPTION:	WATER	LANDFILL	INCINER	LAND/INCIN	FUGITIVE
Total Releases:	2280.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)
Release Days/yr: Per Site Release:	3 95.00 (kg/day)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0 0.00 (kg/day)

REMARKS : Landfill release is less than the trigger amount of 200 kg/site/yr.

RELEASE ID#: 2b Number of Release Sites: 1

RELEASE ACTIVITY: ()MFG ()PRO (X)IND USE ()COMM USE ()CONS USE

RELEASE DESCRIPTION:	WATER	LANDFILL	INCINER	LAND/INCIN	FUGITIVE
Total Releases:	238.50 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)
Release Days/yr: Per Site Release:	68 3.50 (kg/day)	0.00 (kg/yr)	0.00 (kg/yr)	0.00 (kg/yr)	0 0.00 (kg/day)

REMARKS : Landfill release is less than the trigger amount of 200 kg/site/yr.

```
INITIAL REVIEW EXPOSURE REPORT
                                                     PAGE 6 OF 11
 CASE NUMBER(S): p-99-0044
 SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES
_______
RELEASE ID#: 1a
RELEASE ACTIVITY: (X)MFG ( )PRO ( )IND USE ( )COMM USE ( )CONS USE
Facility Name:
Facility Location:
Receiving Water Name:
Reach Number:
Facility on Reach? [X] Yes
                               [ ] No
                   [X] Direct [ ] Indirect
Discharge Type:
NPDES Permit #:
                         -(for indirects, use POTW permit #)
                 [ ] Task 73
Data Source:
                 [] IFD
                  ] Submitter
                 [ ] Contractor
                 [ ] Region/State
                 [X] Other
                             SIDS
Removal in Wastewater Treatment: 0.000 %
Plant Effluent Flow (MLD): 3.727
Release (kg/site/day):
                                1.000
                                                    1.000
                            (before treatment) (after treatment)
Release days/yr:
                                                    ESTIMATED PDRs (mg/yr)
                             STREAM CONC(ug/l) DRINKING H20
FLOW TYPE STREAMFLOW (MLD)
                                                              FISH INGEST*
                                                   5.77e-04
     MEAN
                   1.04e+05
                                       9.62e-03
                                                                   < 0.01
     LOW
                   1.87e+04
                                       5.35e-02
     PLANT
                       3.73
                                        268.31
*Where,
          STREAM CONC. = [(release after treatment) X (1000)] / (streamflow)
          DRINKING H20 PDR = (mean stream conc) X (water ingested) X
                             (release days/yr) / (0.001)
          FISH ING PDR = (mean stream conc) X (Bio Concentration Factor) X
                         (fish ingested/day) X (release days/yr) X (1.0e-6)
REMARKS: COC = 2 ppb. COC is not exceeded.
                             1 \text{ MGD} = 3.7854 \text{ MLD}
   1 \text{ CFS} = 2.4465 \text{ MLD}
```

CASE NUMBER(S): p-99-0044

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

RELEASE ID#: 1b

RELEASE ACTIVITY: (X)MFG ()PRO ()IND USE ()COMM USE ()CONS USE

Facility Name: 1

Facility Location:

Receiving Water Name:

Reach Number:

Facility on Reach? [X] Yes [] No

Discharge Type: [X] Direct [] Indirect

NPDES Permit #: for indirects, use POTW permit #)

Data Source: [] Task 73

[] IFD

[] Submitter
[] Contractor
[] Region/State

[X] Other SIDS

Removal in Wastewater Treatment: 0.000 %

Plant Effluent Flow (MLD): 3.727

Release (kg/site/day): 16.000 16.000

(before treatment) (after treatment)

Release days/yr: 2

			ESTIMATED	PDRs (mg/yr)
FLOW TYPE	STREAMFLOW (MLD)	STREAM CONC(ug/l)		FISH INGEST*
1200 1112	eritari zen (1122)	Dindin Conc (ag/ 1/	54421444110 1120	11011 1110201
MEAN	1.04e+05	0.15	6.15e-04	< 0.01
LOW	1.87e+04	0.86		
PLANT	3.73	4293.00		

*Where, STREAM CONC. = [(release after treatment) X (1000)] / (streamflow)

DRINKING H20 PDR = (mean stream conc) X (water ingested) X

(release days/yr) / (0.001)

FISH ING PDR = (mean stream conc) X (Bio Concentration Factor) X (fish ingested/day) X (release days/yr) X (1.0e-6)

REMARKS: COC = 2 ppb. COC is not exceeded.

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INITIAL REVIEW EXPOSURE REPORT

CASE NUMBER(S): p-99-44

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

RELEASE ID#: 2

RELEASE ACTIVITY: ()MFG ()PRO (X)IND USE ()COMM USE ()CONSTUSE

RELEASE ACTIVITY SIC CODE(S): 332,336

SIC CODE DESCRIPTION: Foundries

Removal in Wastewater Treatment: 0.000 %

Bio Concentration Factor: 0.000

95.000 95.000 Release (kg/site/day):

(before treatment) (after treatment)

Release days/yr: 3

Water ingested (liters/day) : 2.000

Fish consumed (grams/day) : 0.000

PLANT	%	STREAMFLOW	W (MLD)	STREAM	CONC (UG/L)	HUMAN PDRs	(MG/YR)
TYPE	TILE	MEAN	LOW	MEAN	LOW	WATER	FISH *
All	50	1857.79	189.93	51.14	500.18	0.31	0.00
All	10	216.76	8.02	438.27	1.18e+04	2.63	

STREAM CONC = [(Release after treatment) X (1000)] / (Streamflow) *Where, DRINKING WATER PDR = (Mean stream conc) X (water ingested/day) X (Release days/yr) X (0.001)

FISH INGESTION PDR = (Mean stream conc) X (Bio Concentration Factor) X (fish ingested/day) X (Release days/yr) X (1.0 E-6)

REMARKS: CC = 2 ppb.

1 CFS = 2.4465 MLD

1 MGD = 3.7854 MLD

INITIAL REVIEW EXPOSURE REPORT

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CASE NUMBER(S): p-99-44

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

RELEASE ID#: 2b

RELEASE ACTIVITY: () MFG () PRO (X) IND USE () COMM USE () CONS USE

RELEASE ACTIVITY SIC CODE(S): 332,336

SIC CODE DESCRIPTION: Foundries

Removal in Wastewater Treatment: 0.000 %

Bio Concentration Factor: 0.000

Release (kg/site/day): 3.500 3.500

(before treatment) (after treatment)

Release days/yr: 68

Water ingested (liters/day) : 2.000

Fish consumed (grams/day) : 0.000

PLANT	%	STREAMFLO	W (MLD)	STREAM CON	LOW	HUMAN PDRs	(MG/YR)
TYPE	TILE	MEAN	LOW	MEAN	LOW	WATER	FISH *
All All	50 10	1857.79 216.76	189.93 8.02	1.88 16.15	18.43 436.41	0.26	0.00

*Where, STREAM CONC = [(Release after treatment) X (1000)] / (Streamflow) DRINKING WATER PDR = (Mean stream conc) X (water ingested/day) X (Release days/yr) X (0.001)

FISH INGESTION PDR = (Mean stream conc) X (Bio Concentration Factor) X (fish ingested/day) X (Release days/yr) X (1.0 E-6)

REMARKS: CC = 2 ppb. Exceeded 67 days.

1 CFS = 2.4465 MLD

1 MGD = 3.7854 MLD

CASE(s) :_	PDM EXPOSURE REPO	RT +	Page	<u>/0</u> bf_//	-		
	- 2-10		DEL (PDM)	RESULTS	3 	<u>.</u>	
Release Acti	vity: ()MFG () PRO	(>) IND	USE () COMM	USE () CONS
Release Activ	rity SIC Code (s) :						
SIC Code Desc	cription :				· · · · · · · · · · · · · · · · · · ·	···	-
Number of Rel	ease Sites :					-	
Removal in Wa	astewater Treatment	(Percent)	:			-	
			DIRECT	INDIR	ECT	ALL	
10th %tile Me	ean Streamflow (MLI) :					-
10th %tile Lo	ow Streamflow (MLD)	•			·		
10th %tile Ef	Efluent Streamflow	(MLD) :					-
RELEASE DAYS/YR	AMOUNT	CONCERN CONC. (ug/1)		PERCENT OF YEAR		DAYS PER YEAR	•
68	3.50	2.00000		18.39		67.13	

 \star 'PERCENT OF YEAR EXCEEDED' is obtained by dividing the 'DAYS PER YEAR EXCEEDED' by 365 days/yr.

Remarks:

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INITIAL REVIEW EXPOSURE REPORT

CASE NUMBER(S): p-99-44

NOTE

9 Nov 98

RE: P99-0044

TO: Thomas Brennan, EAB

FROM: Robert S. Boethling, EAB

This substance meets exposure-based criteria for total and water release, and has considerable exceedance of the COC (moderate ecotox concern). Removal was estimated to be 50-90 %. Any removal is likely to be due to sorption, but the extent is uncertain. To resolve this uncertainty it is recommended that the substance be tested in an Activated Sludge Sorption Isotherm test (835.1110).